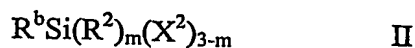
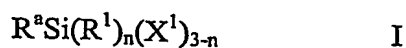


Claims

1. A composition for coating comprising at least one compound of formula I and optionally at least one compound of formula II



wherein

R^a is a straight-chain or branched $C_{(1-24)}$ alkyl group,

R^b is an aromatic group, such as an optionally substituted carbocyclic and heterocyclic group comprising five-, six- or ten-membered ring systems, which is linked by a single covalent bond or a spacer unit, such as a straight-chain or branched alkyl residue having 1 to 8 carbon atoms, to the Si-atom,

R^1 and R^2 are independently of each other a lower alkyl group, such as a straight chain and branched hydrocarbon radical having 1 to 6 carbon atoms,

X^1 and X^2 are independently of each other a hydrolysable group, such as a halogen or an alkoxy group and

n, m are independently of each other 0 or 1,

with the proviso that if n and m are independently of each other 0 or 1, X may represent the same or different groups.

2. A composition according to claim 1, wherein the volume ratio of a compound of formula I to a compound of formula II ranges from 1:100 to 100:1, preferably from 1:50 to 50:1, more preferably from 1:10 to 10:1, most preferably from 1:1 to 5:1.
3. A substrate having a coating formed of a composition according to claims 1 or 2.
4. A substrate according to claim 3, wherein the coating is in form of filaments.
5. A substrate according to claim 4, wherein the coating is obtainable using a method according to claim 12.

6. A substrate according to claim 4 or 5, wherein the filaments range from very short, nearly spherical bases up to several μm in length with diameters ranging from approximately 10 nm to 160 nm.
7. A substrate according to claim 4 to 6, wherein the coating has a thickness of 1 to 350 nm.
8. A substrate according to claims 4 to 7, wherein the coating is transparent, and wherein preferentially also the substrate is transparent.
9. A substrate according to claims 3 to 8, wherein the coating has a mean layer thickness of at least 60nm to 85nm.
10. A substrate according to claims 3 to 9, wherein the substrate is natural or artificial and is selected from a fabric, metal like Ti or Al, glass, ceramics, cellulose, paper, wood, silicon-based material and polymers.
11. A method of production of a substrate comprising applying a coating formed of a composition according to claims 1 or 2.
12. A method according to claim 11, wherein the silanization is carried out under conditions such that the molar ratio of silane to water, the water being preferably in the gas phase, is in the range of 1:10 to 10:1.
13. A textile having a coating formed of a composition according to claims 1 or 2.
14. A glass device having a coating formed of a composition according to claims 1 or 2.
15. A sanitary device having a coating formed of a composition according to claims 1 or 2.